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## A New Species of the Genus *Jankowskia* from Ussuri and Northern Korea (Lepidoptera, Geometridae)

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**Abstract** *Jankowskia viidaleppi*, belonging to Geometridae, is described as new to science from Ussuri and Northern Korea.

In my revision of the genus *Jankowskia* OBERTHÜR from Japan and adjacent countries (SATO, 1980), I described two new species, *J. pseudathleta* and *J. taiwanensis*, and one new subspecies, *J. fuscaria naitoi*, together with the redescription of two species, *J. athleta* OBERTHÜR and *J. fuscaria* (LEECH). In this paper I will describe a further new species of the genus found in Ussuri and Northern part of Korea. Holotype and one paratype are deposited in National Science Museum, Tokyo, three paratypes in Institute of Zoology and Botany, Estonian SSR, USSR, and other paratypes in my cabinet.

### *Jankowskia viidaleppi* sp. nov.

(Figs. 1 - 4)

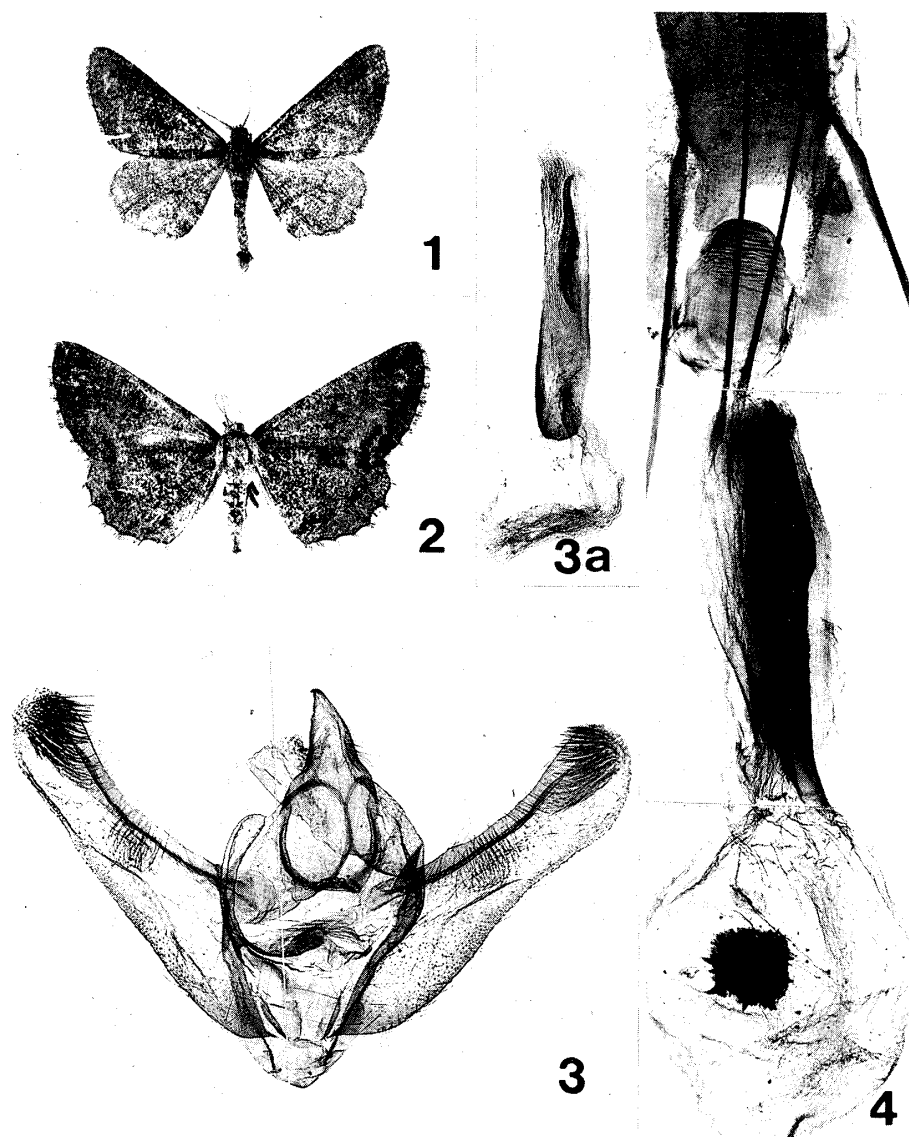
Length of forewing: ♂ 15 - 19 mm, ♀ 22 mm.

Male. Head black, with a few greyish scales; palpus grey mixed with blackish scales beneath; antenna with 48 - 51 segments, the longest pectinations about 3.5 times as long as their basal segments. First abdominal segment with pale grey band dorsally, remainder dark grey. Tegula, patagia and thoracic vestiture with mixture of grey and black scales. Legs grey; hind tibia without hair-pencil. Forewing dark grey, suffused with pale yellowish brown distad of postmedial line; terminal line black, crenulate; postmedial, medial and antemedial lines black, faintly represented. Hindwing without antemedial line. Underside of both wings dark grey, with postmedial and medial lines weakly defined.

Female. Similar to male, but lighter in colour, and differing in reduction of yellowish brown suffusion distad of postmedial line.

Male genitalia (Fig. 3). Medial plate of gnathos about one-half as broad as cucullus. Tegumen without posterior process. Juxta asymmetrical, strongly sclerotized posteriorly, left side with a long rod-like projection. Vesica with one tapered cornutus, one-half length of aedeagus.

Female genitalia (Fig. 4). Ductus bursae long, strongly sclerotized, especially on right side. Ductus seminalis arising dorsally near anterior end of ductus bursae. Signum almost rounded, with 10 - 12 pointed spines along margin.



Figs. 1-4. *Jankowskia viidaleppi* sp. n. 1. ♂, holotype; 2. ♀, paratype; 3. Male genitalia, slide RS-1720; 3a. *Ditto*, aedeagus; 4. Female genitalia, slide RS-2027.

Holotype. ♂, USSR, S. Ussuri, Primorye Territory, Barabash-Levada, 9. vii. 1980 (M. METSAVIIR). Paratypes. USSR: 2 ♂, same data as holotype; 2 ♀, type locality, 8. vii. 1980; 1 ♂, 2 ♀, *ditto*, 10. vii. 1980 (M. METSAVIIR); 1 ♂, *ditto*, 1. vii. 1984; 1 ♂, *ditto*, 6. vii. 1984 (*ex* A. SCHINTLMEISTER). Korea: 1 ♂, Kangwon-do, Mt. Kumgang, 4. vii. 1980 (*ex* Y. Kishida).

*Remarks.* The male and female genitalia are atypical of *Jankowskia* in lacking a pair of posterior processes of tegumen and in having sclerotized ductus bursae, but they agree well with those of *Jankowskia* in the other genital characters. Moreover the following characters clearly show that this species is a member of *Jankowskia*: proboscis short; male antenna bipectinate, each pectination unscaled, arising from the base of each segment; veins Sc, R<sub>1</sub> and R<sub>2</sub> of forewing separate, 12 veined in male, while R<sub>1</sub> and R<sub>2</sub> entirely coincident, 11 veined in female. Superficially this species is

similar to *J. athleta* occurring in Ussuri, but easily distinguished from it as follows: much smaller in size, black irroration much reduced and lines less defined.

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### Reference

- SATO, R., 1980. A revision of the genus *Jankowskia* OBERTHÜR (Lepidoptera, Geometridae). *Tyô to Ga*, **30**: 127–139.

### 摘 要

ウスリーと韓国北部産 *Jankowskia* 属の 1 新種 (佐藤力夫)

筆者(1980)は先に *Jankowskia* 属の再検討をおこない、日本と台湾の各 1 新種を含む 4 種を記載したが、このほど J. VIIDALEPP 氏のご厚意によりさらに 1 新種を見出すことができたので、*Jankowskia viidaleppi* SATO と命名し記載した。本種は雄交尾器の tegumen 背方に 1 対の突起を欠くこと、雌交尾器の ductus bursae が強く骨化する点でやや異質であるが、口吻の退化傾向、雄触角の形状、前翅の脈相、valva や signum の形状は *Jankowskia* 属の特徴をよくあらわしている。ウスリーから韓国北部にかけて広く分布しているものと思われる。ウスリーでは *J. athleta* OBERTHÜR と混棲しているが、はるかに小型で斑紋も異なるので容易に区別される。